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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/727,201	11/30/2000	Earl Goodrich II	Sprint 1504 (4000-3000)	3225

7590 04/27/2004

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Kansas City, MO 64114

EXAMINER

TIEU, BINH KIEN

ART UNIT	PAPER NUMBER
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2643

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DATE MAILED: 04/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/727,201

Applicant(s)

GOODRICH ET AL.

Examiner

BINH K. TIEU

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 April 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ulrich et al. (U.S. Pat. #: 3,492,436).

Regarding claims 1 and 8, Ulrich et al. ("Ulrich") teaches a method of ringing arrangement with variable intervals of ringing cadences. Ulrich teaches line link network (LLN) and trunk line network (TLN), as shown in figure 1 for supporting a plurality of telephone circuits (LA-LN). Ulrich further teaches the method that **provides ring current during the same ring cadence to all of the circuits then receiving calls** (i.e., ring current from a ring

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generator coupled to ringing control circuit RCC is applied over the shared conductors RG, col.5, line 69 – col.6, line12). Ulrich further teaches the method that comprises **offsetting the ringing interval of each of the plurality of telephone circuits by a preselected amount** (i.e., offsetting for two-second interval and four-second silent; 1.5 second interval and 4.5 second silent, etc.) such that all the telephone circuits do not ring simultaneously during the same ring cadence (col.6, lines 13-75).

It should be noticed that Ulrich the method of arrangement with variable intervals of ringing cadence. Ulrich fails to clearly teach or suggest the method to be used for reducing power in an integrated services hub connected with a plurality of SLICs. However, it would have been obvious to those skilled in the art to realize that the teachings of ringing arrangement with variable intervals above is also used and applied to reduce and/or to eliminate amount of ringing power facilities systems for a purpose of reducing heat or temperature to telecommunications equipment during operation.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of arrangement with variable intervals of ringing cadence taught by Ulrich into an integrated service hub connected with a plurality of SLICs for reducing power in order to reduce ringing power sources and heat or temperature for telecommunications equipment while it has been operating.

Regarding claims 2-4 and 6, note col.6, lines 13-53 and figure 4

Regarding claim 5, note col.8, lines 65-68.

Regarding claims 7 and 10, note col.5, lines 69-75.

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Regarding claim 9, note the ringing generator (RG) providing positive terminal and negative terminal to the plurality of telephone circuits LA-LN and other internal power amplifiers as shown in figures 2 and 3.

Response to Arguments

4. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for response to this final action is set to expire **THREE MONTHS** from the date of this action. In the event a first response is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for response expire later than **SIX MONTHS** from the date of this final action.

Any response to this final action should be mailed to:

Box AF

**Commissioner of Patents and Trademarks
Washington, D.C. 20231**

Or faxed to:

**(703) 872-9314 (for formal communications; please mark
"EXPEDITED PROCEDURE")**

Or:

**If it is an informal or draft communication, please label
"PROPOSED" or "DRAFT")**

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Customer Service (703) 306-0377
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA. Sixth Floor (Receptionist).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh K. Tieu whose telephone number is (703) 305-3963 and E-mail address: BINH.TIEU@USPTO.GOV.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Curtis Kuntz, can be reached on (703) 305-4708 and **IF PAPER HAS BEEN MISSED FROM THIS OFFICIAL ACTION PACKAGE, PLEASE CALL Customer Service at (703) 306-0377 FOR THE SUBSTITUTIONS OR COPIES.**


BINH TIEU
PRIMARY EXAMINER

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Date: April 22, 2004